0060E0 EP22E560

APPROVED | O.G. FIG.
BY | CLASS | SUBCLASS
DRAFTSMAN | 530 | 351


```
          1              15 16             30 31             45 46             60 61             75 76             90
hIL-2     --------------- ------APTSSSTKK TQLQLEHLLLDLQMILNGINNYKN------ ---PKLTRMLTFKFY MPKKATE---LKHLQ
hIL-15    ----------AGIH VFILGCFSAGLPKTE ANWVNVISDLKKI-EDLIQSMHIDAT---- ------------LY TESDVHPSCKVTAMK
za11-Lig  --------------- --sSSQGQDRHMIRM RQLIDIVDQLKNYVNDLVPEF--------- ------------LP APEDVETNCEWSAFS
hIL-4     --------------- ----------HKCD- ITLQEIIKTLNSLTEQKTLCTELTVTDI-- ------------FA ASKNTTE----KETF
mIL-4     --------------- --------HIHGCDK NHLREIIGILNEVTGEGTPCTEMDVPNV-- ------------LT ATKNTTE----SELV
hGM-CSF   --------------- ---SPSPSTQPWEHV NAIQEARRLLNLSRDTAAEMNETV------ ------------E VISEMFD---LQEPT
mGM-CSF   --------------- -----IIVTRPWKHV EAIKEALNLLDDMPVTL---NEEV------ ------------E VVSNEFS---FKKLT

          91             105 106            120 121            135 136            150 151            165 166            180
hIL-2     CLEEELKPLEEVLNL AQSKNFHLRPRDLIS NINVIVLGLKGSE---------------- --------TTFMCE- YADETATIVEFLNRW
hIL-15    CFLLELQVISLESGD ASIHDTVENLIILAN NSLSSNGNVTESG---------------- ---------CKECEE LEEK--NIKEFLQSF
za11-Lig  CFQKAQLKSANTGNN ERIINVSIKKLKRKP PSTNAGRRQKHRL---------------- --------TCPSCDS YEKK--PPKEFLERF
hIL-4     CRAATVLRQFYSHHE KDTRCLGATAQQFHR HKQLIRFLKRLDRNLWGLAGL--------- ----------NSCPV KEANQSTLENFLERL
mIL-4     CRASKVLRIFYLKHG K-TPCLKKNSSVLME LQRLFRAFRCLDS---------------- ---------SISCTM NESKSTSLKDFLESL
hGM-CSF   CLQTRLELYKQGLRG SLTKLKGPLTMMASH YKQHCPPTPE------------------- ----------TSCA- --TQIITFESFKENL
mGM-CSF   CVQTRLKIFEQGLRG NFTKLKGALNMTASY YQTYCPPTPE------------------- ----------TDCE- --TQVTTYADFIDSL

hIL-2     ITFCQSIISTL    132
hIL-15    VHIVQMFINTS1    134
za11-Lig  KSLLQKMIHQHLSSR THGSEDS    136
hIL-4     KTIMREKYSKCSS    129
mIL-4     KSIMQMDYS    120
hGM-CSF   KDFLLVIPFDC--WE    119
mGM-CSF   KTFLTDIPFEC--KK PSQK    118
```

FIG. 1

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APPROVED BY DRAFTSMAN | O.G. FIG. CLASS 530 SUBCLASS 351

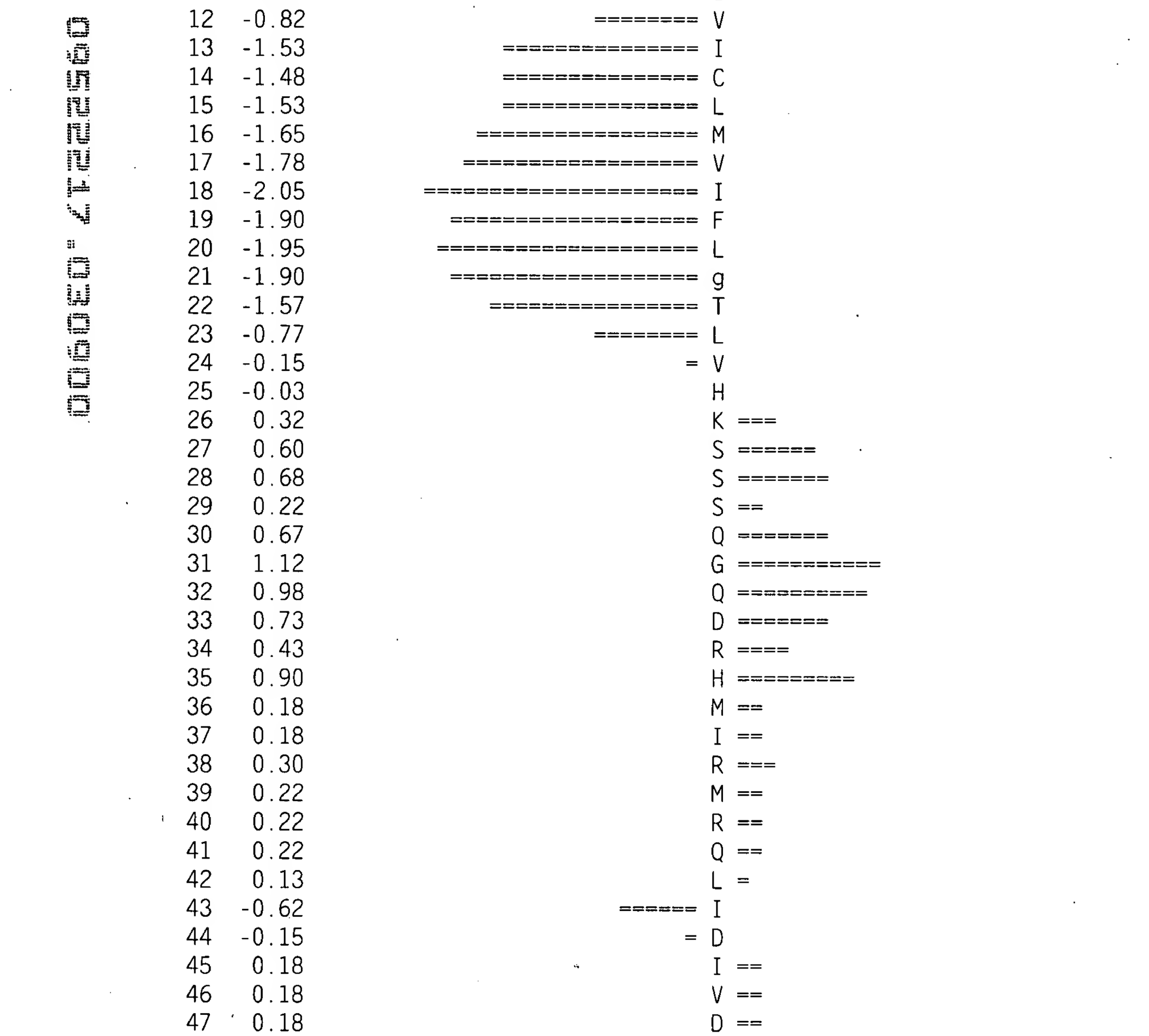

FIG. 2A

APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS 530 | SUBCLASS 357

Oct 20, 2003 7:15 pm

```
48   0.52                                    Q =====
49   0.38                                    L ====
50  -0.37                               ==== K
51  -0.37                               ==== N
52   0.43                                    Y ====
53  -0.37                               ==== V
54  -0.65                           ======= N
55  -0.27                             === D
56   0.48                                    L =====
57   0.03                                    V
58  -0.77                        ======== P
59  -0.47                          ===== E
60  -0.30                             === F
61  -0.30                             === L
62  -0.30                             === P
63   0.62                                    A ======
64   0.67                                    P =======
65   1.17                                    E ===========
66   1.18                                    D ===========
67   1.22                                    V ===========
68   0.55                                    E =====
69   0.55                                    T ======
70   0.23                                    N ==
71  -0.22                               == C
72  -0.23                               == E
73  -0.68                           ======= W
74  -1.08                       ========== S
75  -1.75                  ================ A
76  -1.60                    ============== F
77  -1.62                    ============== s
78  -1.03                        ========== C
79  -0.70                           ======= F
80  -0.10                                = Q
81  -0.23                               == K
82   0.68                                    A =======
83   0.70                                    Q =======
84   0.12                                    L =
85   0.23                                    K ==
86   0.13                                    S =
87   0.43                                    A ====
88  -0.03                                    N
89  -0.05                                = T
90   0.53                                    G =====
91   1.00                                    N ==========
92   0.77                                    N ========
93   0.47                                    E =====
94   0.47                                    R =====
95   0.18                                    I ==
96  -0.27                             === I
```

FIG. 2B

APPROVED BY DRAFTSMAN | O.G. FIG. CLASS 530 SUBCLASS 351


```
 97   -1.07                                  ========== N
 98   -0.27                                       === V
 99    0.53                                         S =====
100    0.20                                         I ==
101    0.95                                         K ==========
102    1.40                                         K ==============
103    2.20                                         L ======================
104    1.70                                         K ================
105    1.20                                         R ============
106    1.55                                         K ================
107    0.98                                         P ==========
108    0.52                                         P =====
109   -0.07                                       = S
110   -0.07                                       = T
111    0.43                                         N ====
112    0.88                                         A =========
113    0.98                                         G ==========
114    1.45                                         R ==============
115    1.85                                         R ==================
116    2.35                                         Q ========================
117    1.55                                         K ==============
118    0.98                                         h ==========
119    0.78                                         R ========
120    0.28                                         L ===
121    0.02                                         T
122   -0.65                                  ======= C
123    0.15                                         P ==
124    0.27                                         S ===
125    0.45                                         C =====
126    0.95                                         D ==========
127    1.40                                         S ==============
128    2.07                                         y ====================
129    1.57                                         E ================
130    1.52                                         K ==============
131    2.00                                         K ====================
132    2.00                                         P ====================
133    1.08                                         P ==========
134    0.28                                         K ===
135    0.78                                         E ========
136    1.28                                         F ============
137    0.37                                         L ====
138    0.37                                         E ====
139    0.83                                         R ========
140    0.83                                         F ========
141    0.03                                         K
142   -0.43                                    ==== S
143    0.48                                         L =====
144   -0.23                                      == L
145   -0.58                                  ====== Q
```

FIG. 2C

APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS 530 | SUBCLASS 351


```
146   -0.37                                  ==== K
147   -0.03                                      M
148   -0.15                                   = I
149   -0.95                              ========== H
150   -0.68                                 ======= Q
151   -0.33                                    === H
152    0.25                                        L ===
153    0.15                                        S =
154    0.15                                        S =
155    0.56                                        R ======
156    0.67                                        T =======
157    1.23                                        H ============
158    1.34                                        G ============
159    1.57                                        S ================
160    1.77                                        E ================
161    0.00                                        D
162    0.00                                        S
163    0.00                                        .
;              |---------|---------|---------|---------|---------|---------|---------|
;             -3        -2        -1         0         1         2         3
;              Hydrophobic                                        Hydrophilic
```

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FIG. 2D